AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Currently Amended) A display device comprising:
- a display panel which is equipped with pixels including a light-emitting element;
- a temperature detection unit which detects a temperature data;
- an A/D conversion circuit which converts detected the temperature data into a digital data;
- a storage unit in which a temperature characteristic and an aging characteristic of the light-emitting element are stored;
- an arithmetic operation unit which calculates a lighting period of each pixel using the digital data, the temperature characteristic, and a digital video signal;
- a count unit which counts a cumulated lighting period of each pixel using an output of the arithmetic operation unit; and
- a correction unit which corrects the digital video signal to be inputted to each pixel using the aging characteristic and the cumulated lighting period, and supplies the corrected digital video signal to the display panel.
- 2. (Previously Presented) A display device according to claim 1, wherein the arithmetic operation unit calculates an acceleration factor from the digital data and the temperature characteristic and calculates the lighting period of each pixel from a multiplication of the digital video signal and the acceleration factor.
- 3. (Previously Presented) A display device according to claim 1, wherein the temperature detection unit is a light-emitting element.

4.-6. (Canceled)

7. (Currently Amended) A drive method for a display device having a display panel equipped with pixels including a light-emitting element, a temperature detection unit, a

storage unit in which a temperature characteristic and an aging characteristic of the lightemitting element are stored, an arithmetic operation unit, a count unit and a correction unit,

comprising the steps of:

detecting a temperature data by the temperature detection unit;

converting detected the temperature data into a digital data by A/D conversion circuit;

calculating a lighting period of each pixel using the digital data, the temperature

characteristic, and a digital video signal by the arithmetic operation unit;

counting a cumulated lighting period of each pixel using an output of the arithmetic

operation unit by the count unit;

correcting the digital video signal to be inputted to each pixel using the aging

characteristic and the cumulated lighting period by the correction unit; and

displaying an image using the corrected digital video signal by the display panel.

8. (Previously Presented) A drive method for a display device according to claim 7,

wherein the arithmetic operation unit calculates an acceleration factor from the digital data

and the temperature characteristic and calculates the lighting period of each pixel from a

multiplication of the digital video signal and the acceleration factor.

9. (Previously Presented) A drive method for a display device according to claim 7,

wherein the temperature detection unit is a light-emitting element.

12. (Canceled)

13. (Currently Amended) A display device comprising:

a display panel which is equipped with pixels including a light-emitting element;

a temperature detection unit which detects a temperature data;

an A/D conversion circuit which converts detected the temperature data into a digital

data;

a storage unit in which a temperature characteristic and an aging characteristic of the

light-emitting element are stored;

an arithmetic operation unit which calculates an acceleration factor using the digital

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data and the temperature characteristic, calculates a lighting period of each pixel using a digital video signal and calculates a corrected lighting period of each pixel using multiplication of the lighting period and the acceleration factor;

a count unit which counts a cumulated lighting period of each pixel using an output of the arithmetic operation unit; and

a correction unit which corrects a digital video signal to be inputted to each pixel using the aging characteristic and the cumulated lighting period, and supplies the corrected digital video signal to the display panel.

14. (Previously Presented) A display device according to claim 13, wherein the temperature detection unit is a light-emitting element.

15.-16. (Canceled)

17. (Currently Amended) A drive method for a display device having a display panel equipped with pixels including a light-emitting element, a temperature detection unit, a storage unit in which a temperature characteristic and an aging characteristic of the light-emitting element are stored, a count unit and a correction unit, comprising the steps of:

detecting a temperature data by the temperature detection unit;

converting detected the temperature data into a digital data by A/D conversion circuit; calculating an acceleration factor using the digital data and the temperature characteristic, a lighting period of each pixel using a digital video signal and a corrected lighting period of each pixel using multiplication of the lighting period and the acceleration factor by an arithmetic operation unit;

counting a cumulated lighting period of each pixel using an output of the arithmetic operation unit by the count unit;

correcting a digital video signal to be inputted to each pixel using the aging characteristic and the cumulated lighting period by the correction unit; and

displaying an image using the corrected digital video signal by the display panel.

18. (Previously Presented) A drive method for a display device according to claim 17, wherein the temperature detection unit is a light-emitting element.